

For Formal Entry

Response 01, ADV1.004
Application 10/748,860**CLEAN VERSION OF SUBSTITUTE SPECIFICATION:****ILLUMINATED CAPS FOR CONTAINERS
AND DISPLAY RACKS FOR ENERGIZING THEM**

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Cross-Reference to Related Applications

This application claims benefit of the Provisional U.S. Patent Application entitled **Lighted Cap**, serial no. 60/436,576, which was mailed December 11, 2002, and filed as of December 27, 2002, by James R. Zarian, a copy of which is attached hereto for reference purposes, the disclosure of which is also 10 incorporated herein by reference.

Background

Light forms for illumination have gained tremendous interest recently. LEDs 15 (Light emitting diodes) as a light source have also been used extensively because of dazzling color, high flux, energy efficiency among other attributes. One of the more interesting attributes of LEDs is the compactness and small footprint.

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Summary of Invention

A cap 5 for a container that comprises of a light source such as an LED 10, is contained within the cap 5 and conductors 15A and 15B are placed without the cap as depicted in Fig. 1.

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This embodiment attached to a container, then can be held in a holder 20 capable of conducting current to the cap as depicted in Fig. 2.

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The holder may have spring action, whereby once the cap is inserted into the holder, contact is made and the cap projects light into the contents of the container lighting the same.

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The holder may also have a stem 25 attached to it as depicted below as well as a base 30 containing an energy source such as batteries, as shown in Fig. 3.

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In another embodiment a holder may be provided as arranged as shown in Fig. 4.

10 The holder is provided with conductors and containers including the cap can slide from one portion of the holder to the next and fall into place at predetermined intervals, indicated as I1 through I4. In such an arrangement a group of containers would be lit and as one container is removed, another container would fall into place and remain lit.

- 15 In certain arrangements the inclusion of an LED as the product is sold may be prohibitive or a large intensity of light may be needed. In such circumstances, the container(s) may be provided with a clear cap 35 and light from an LED 10 projected into the container as depicted in Fig. 5.
- 20 In one embodiment a series of LEDs may be arranged on a rack 40 and the rack 40 may also contain a guide (not shown) to place the LEDs 10 onto the caps 35 illuminating the contents of the bottles as depicted in Fig. 6.

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